PTO/SB/05 (05-03)
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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No. First Inventor		2072.0010003/LBB/SJE				
		Michelle M. HANNA				
Title	Molecular Detection Systems Utilizing Reiterative Oligonucleotide Synthesis					

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Commissioner for Patents Mail Stop Patent Application P.O. Box 1450 Alexandria VA 22313-1450					
	ADDRESS TO: Mail Stop Patent Application P.O. Box 1450					
	form PTO/SB/35 or its equivalent. Other: Authorization under 37 C.F.R. § 1.136(a)(3) Other: The name of the assignee is: Designer Genes, Inc.					
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-Part (CIP) of prior application No: 09/984,664 Prior application information: Examiner Young J. Kim Group/Art Unit: 1637 For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.						
19. GARRESPA	NDENCE ADDRESS					
Customer Number or Bar Code Label Customer No. 26111 NAME STERNE, KESSLER, GOLDSTEIN & FOX PATENT TRADEN Attorneys at Law ADDRESS CITY STATE COUNTRY TELEPHONE	Correspondence address below An Lar code label here ZIP CODE FAX					
NAME (Print/Type) Lawrence B. Bugaisky	Registration No. (Attorney/Agent) 35,086 Date Jan 24 2003					
SIGNATURE Samue B. Bugarah	required to obtain a scatting a banefit by the public which is to file (and by the LISPTO					

PTO/SB/17 (05-03)

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FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

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ノIAL	ANIOUN	NI OF	PAYMENT _	(\$) 1,211.00

Complete if Known						
Application Number	To Be Assigned					
Filing Date	Herewith	•				
First Named Inventor	Michelle M. HANNA					
Examiner Name	To Be Assigned					
Art Unit	To Be Assigned					
Attorney Docket No.	2072.0010003/LBB/SJE					

TOTAL AMOUNT OF PAYMENT (\$)1,211.00		Attorne	y Docl		2072.0010003/L			
METHOD OF PAYMENT (check all that apply)				FE	EE CALCULATION (c	ontinued)		
☐ Check 🌣 Credit card ☐ Money Order 💆 Other** ☐ None		3. ADDITIONAL FEES						
** Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.		Large Entity Small Entity						
	Fee		Fee	Fee	Fee Descriptio	ù		, ,
Deposit Account Deposit Account Number 19-0036	Code	(\$)	Code	(\$)			F	ee Paid
Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.	1051	130	2051	65	Surcharge - late filing fe	e or oath		
The Commissioner is authorized to: (check all that apply)	1502	50	2052	25	Surcharge-late provision sheet	nal filing fee	or cover	
☐Charge fee(s) indicated below ☐Credit any over payments	1053	130	1053	130	Non-English specification	on ,		
Charge any additional fee(s) during the pendency of this application	1812	2,520	1812	2,520	For filing a request for e	x parte reex	amination	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1804	920*	1804	920*	Requesting publication action	of SIR prior t	o Examiner	
	1805	1,840*	1805	1,840*	Requesting publication action	of SIR after E	Examiner	
	1251	110	2251	55	Extension for reply with	in first month	卜	
	1252	410	2252	205	Extension for reply with	in second mo	onth	
FEE CALCULATION	1253	930	2253	465	Extension for reply with	in third mont	n	, ", ", " , "
1. BASIC FILING FEE	1254	1,450	2254	725	Extension for reply with	in fourth mor	ith .	
Large Entity Small Entity	1255	1,970	2255	985	Extension for reply with	in fifth month		
Fee Fee Fee Fee Fee Description Fee Paid	1401	320	2401	160	Notice of Appeal			
Code (\$) Code (\$)	1402	320	2402	160	Filing a brief in support	of an appeal	<u> </u>	
1001 750 2001 375 Utility filing fee \$375.00 1002 330 2002 165 Design filing fee	1403	280	2403	140	Request for oral hearing	g	-	
1003 520 2003 260 Plant filing fee	1451	1,510	1451	1,510	Petition to institute a pu	blic ușe proc	eeding	
1004 750 2004 375 Reissue filing fee	1452	110	2452	55	Petition to revive - unav	oidable/	-	
1105 160 2005 80 Provisional filing fee	1453	1,300	2453	650	Petition to revive - unin	tentional		
SUPTOTAL (4) (\$) 375.00	1501	1,300	2501	650	Utility issue fee (or reis	sue)	·	
SUBTOTAL (1) (\$) 375.00		470	2502	235	Design issue fee		-	
EXTRA CLAIM FEES FOR UTILITY AND REISSUE Fee from Extra below Fee Paid	1503	630	2503	315	Plant issue fee		-	
Total Claims 88 - 20** = 68 X 9.00 ≈ 612.00	1303	030	2,003	313	,		_	
Indep. Claims 53** = 2 X 42.00 ≈84.00	1460	130	1460	130	Petitions to the Commis	ssioner		
Multiple Dependent 140.00 = 140.00	1807	50	1807	50	Processing fee under 3	7 CFR 1.17(q) [
	1806	180	1806	180	Submission of Informat	ion Disclosui	re Stmt	
Large Entity Small Entity Fee Fee Fee Fee Code (\$) Code (\$)	8021	40	8021	40	Recording each patent property (times number	assignment of propertie	per s)	
1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	Filing a submission after 1.129(a))	er final rejecti	ion (37 CFR	
1201 84 2201 42 Independent claims in excess of 3 1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	For each additional inv (37 CFR 1.129(b))	ention to be	examined	·
1203 280 2203 140 Multiple dependent claim, if not paid 1204 84 2204 42 **Reissue independent claims							·	
over original patent	1801	750	2801	375	Request for Continued		· L	
1205 18 2205 9 **Reissue claims in excess of 20	1802	900	1802	900	Request for expedited application	examination	of a design	•
and over original patent	Other	fee (sp	■ ecify) _				·	
SUBTOTAL (2) (\$)836.00 **or number previously paid, if greater, For Reissue, see above	* Red	luced by	Basic	Filing F	ee Paid	SUBTOTAL ((3) (\$)0	<u>-</u>
SUBMITTED BY						Complete	(if applicable)	
Name (Print/Type) Lawrence B. Bugaisky	Regis	tration l	Vo.		35,086	Telephone	202-371-2	2600
Signature Laure B. Begans				 !		Date	June 24	2003
occure ou varyens	_						<i></i>	



Robert Greene Sterne Edward J. Kessler Jorge A. Goldstein David K.S. Comwell Robert W. Esmond Tracy-Gene G. Durkin Michael B. Ray Robert E. Sokohl Eric K. Steffe Michael Q. Lee Steven R. Ludwig John M. Covert Linda E. Alcom Robert C. Millonig Lawrence B. Bugaisky Donid J. Featherstone Michael V. Messinger Judith U. Kim Timothy J. Shea, Jr. Patrick E. Garrett Heidi L. Kraus Edward W. Yee Albert L. Ferro* Donald R. Banowit Peter A. Jackman Hotly A. McCall Teresa U. Medler Jeffrey S. Weaver Kendrick P. Patterson Vincent L. Capuano Albert J. Fasulo Ji* Eldora Ellison Floyd Thomas C. Fiala Brian J. Del Buon Virgil Lee Beaston*

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June 24, 2003

WRITER'S DIRECT NUMBER: (202) 772-8589 INTERNET ADDRESS: LARRYB@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Mail Stop Patent Application

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. To Be Assigned; Filed: Herewith

(Div. of Appl. No. 09/984,664; Filed: October 30, 2001)

For: Molecular Detection Systems Utilizing Reiterative Oligonucleotide Synthesis

Inventor:

Michelle M. Hanna

Our Ref:

2072.0010003/LBB/SJE

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- 2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 3. U.S. Utility Patent Application entitled:

Molecular Detection Systems Utilizing Reiterative Oligonucleotide Synthesis

and naming as inventor:

Michelle M. HANNA

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. A copy of the executed Declaration, as originally filed in U.S. Appl. No. 09/984,664;
- c. A specification containing:
 - i. 101 pages of description prior to the claims;
 - ii. 27 pages of claims (135 claims);
 - iii. a one (1) page abstract;
- d. 33 sheets of drawings: (Figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29A, 29B, 29C, 30 and 31; and
- e. 16 pages of a paper copy of a sequence listing;
- 4. Request to Open New Disk File;
- 5. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 6. A Preliminary Amendment;
- 7. Request to Approve Proposed Drawing Corrections;
- 8. Photocopy of the **6** sheets of drawings with the corrections noted in red;
- 9. Letter to PTO Draftsman: Submission of Formal Drawings;
- 10. 31 sheets of formal drawings (Figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29A, 29B, and 30;
- 11. An Information Disclosure Statement (IDS);
- 12. Form PTO-1449 (11 pages) listing 55 cited documents;
- 13. PTO-2038 Credit Card Payment Form for \$1,211.00 to cover: \$_375.00 Basic Utility Non-provisional filing fee; (37 C.F.R. § 1.16);

Commissioner for Patents June 24, 2003 Page 3

\$ 612.00 Extra claims fee; (37 C.F.R. § 1.16);

\$ 84.00 Extra Independent claims fee;(37 C.F.R. § 1.16);

\$_140.00 Multiple Dependent claims fee;(37 C.F.R. § 1.16); and

14. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

amere B. Bryansky

Lawrence B. Bugaisky

Attorney for Applicant Registration No. 35,086

LBB/SJE/cjs Enclosures

SKGF_DC1:148263.1